Index of Claims

Application/Control No.

09/683,921 Examiner

GOGGINS, TIMOTHY P.

Art Unit

Reexamination

Applicant(s)/Patent under

Kumiko C. Koyama

2876

Rejected **Allowed** 

(Through numeral) Cancelled

Restricted

**Non-Elected** N Interference

Appeal Α 0 Objected

| Cli      | Claim Date |           |          |              |          |          |              |  | Claim           |          |          |        | Date     |                 |               |          |          |              |           | Cla      |          |          |                 |            |          |  |           |          |
|----------|------------|-----------|----------|--------------|----------|----------|--------------|--|-----------------|----------|----------|--------|----------|-----------------|---------------|----------|----------|--------------|-----------|----------|----------|----------|-----------------|------------|----------|--|-----------|----------|
| Final    | Original   | 3/1/05    |          |              |          |          |              |  |                 |          |          | Final  | Original |                 |               |          |          |              |           |          |          |          | Final           | Original   |          |  |           |          |
|          | 1          | V         |          |              |          |          |              |  |                 |          |          |        | 51       |                 |               |          |          |              |           |          |          |          |                 | 101        |          |  |           |          |
|          | 2          | 1         | L        | ļ            | ļ        | ļ        |              | L.   | Ш               |          |          |        | 52       | Ш               | _             |          |          |              |           |          | _        |          |                 | 102        |          |  |           |          |
|          | 3          | 1         | <u> </u> | <u> </u>     | _        | ↓_       | _            | _  | Ш               |          |          |        | 53       | Ш               | _             | _        |          |              |           | _        | _        | _        | <u> </u>        | 103        | <u> </u> | Ш  |           | _        |
|          | 5          | 1         | <u> </u> | ├            |          | ┼        | ₩            | -  | Н               |          | -        |        | 54       | $\vdash$        | _             |          |          |              |           |          | _        |          |                 | 104        | ⊢        | $\vdash$   | <b>-</b>  | L        |
| -        | 6          | 1         |          | ├            | -        | +        |              | ļ  | -1              |          | -        |        | 55<br>56 | $\vdash$        | $\dashv$      | $\dashv$ |          |              |           | -        | $\dashv$ | -        | -               | 105<br>106 | ┢        | Н  | $\vdash$  |          |
| -        | 7          | 1         |          | ├            | ┢        | ╁        | ⊢            | <del>                                     </del> | Н               |          | H        |        | 57       | $\vdash \vdash$ | -             | $\dashv$ | _        |              |           |          | $\dashv$ | $\dashv$ | $\vdash$        | 107        | ├        | $\vdash$   | $\vdash$  | H        |
|          | 8          | V         | $\vdash$ | H            | H        | H        | $\vdash$     | $\vdash$   | $\vdash$        | _        | -        |        | 58       | H               | -1            | $\dashv$ |          | $\vdash$     | -         |          | $\dashv$ | 1        | -               | 108        | ╁        | H  | Н         | H        |
|          | 9          | V         |          |              | Ħ        |          | 1            |  | П               |          |          |        | 59       | H               | T             | _        | _        |              |           | _        | $\dashv$ | -        |                 | 109        | ┢        | H  |           | ļ        |
|          | 10         | √         | Г        |              | Ì        |          | $\vdash$     |  |                 |          |          |        | 60       | П               | T             | _        | _        |              |           |          | _        | 7        |                 | 110        | T        | П  |           | Г        |
|          | 11         | √         |          |              |          |          |              |  |                 |          |          |        | 61       |                 |               |          |          |              |           |          |          | ]        |                 | 111        |          |  |           |          |
|          | 12         | √         |          |              |          |          |              |  |                 |          |          |        | 62       |                 |               |          |          |              |           |          |          |          |                 | 112        |          |  |           |          |
|          | 13         | 1         |          |              |          | <u> </u> | _            |  |                 |          | L        |        | 63       |                 |               |          |          |              |           |          |          |          |                 | 113        |          |  |           |          |
|          | 14         | 1         |          | ļ            | <u> </u> | ļ.,      | ļ            |  | Ш               |          | Ļ        |        | 64       | Ш               | _             | _        |          |              |           |          | _        | ٠ لــ    |                 | 114        |          | Ш  |           |          |
|          | 15         | ٧         |          | _            | <u> </u> | -        | ļ            | _  |                 | _        | -        |        | 65       | Ш               | _             | _        |          |              |           |          | _        | 4        |                 | 115        | L        | Ш  | Ш         |          |
| -        | 16         | 1         |          | <del> </del> | <u> </u> | ├        | ├            |  | $\vdash \vdash$ |          | -        |        | 66       | $\vdash$        | -             | -        |          | _            | _         |          |          | 4        |                 | 116        | -        | $\vdash$   |           | <u> </u> |
| -        | 18         | 1         |          | ├            | ⊢        | -        | ├            |  | $\vdash$        | _        | -        |        | 67<br>68 | $\vdash$        | -             | -        |          | -            | -         | _        | -+       | -        |                 | 117<br>118 | -        | -  |           | -        |
| -        | 19         | 1         |          | ⊢            | -        | ╁        | ├            |  | $\vdash$        | _        | -        |        | 69       | $\vdash$        | -             | $\dashv$ |          | -            | -         | _        |          | $\dashv$ | $\vdash$        | 119        | ├        | -  | $\vdash$  | -        |
|          | 20         | 1         | _        | ╁            | $\vdash$ | ╁╌       | <del> </del> |  | H               | _        | <b> </b> |        | 70       | +               | $\dashv$      | +        |          | -            |           |          | -        | $\dashv$ |                 | 120        | H        | Н  | $\vdash$  |          |
|          | 21         | V         | _        | -            | ├        | ╁        | ┢            | $\vdash$   | $\vdash$        | -        | l ⊦      |        | 71       | $\vdash$        | 十             |          | $\dashv$ |              | $\dashv$  |          | $\dashv$ | -        |                 | 121        | H        | Н  | Н         | -        |
|          | 22         | Ì         | $\vdash$ | $\vdash$     | ╁        | $\vdash$ | 一            |  |                 | _        |          |        | 72       |                 |               | $\dashv$ | _        | $\dashv$     | $\exists$ |          | _        | _        |                 | 122        | H        |  | _         | Т        |
|          | 23         | 1         |          |              |          | $\vdash$ |              |  |                 |          |          |        | 73       |                 | 7             | 7        |          |              |           |          | 1        | _        |                 | 123        | Т        | П  |           | Г        |
|          | 24         | ٧         |          |              |          | Г        |              |  | $\neg$          |          |          |        | 74       |                 | 寸             | T        |          |              |           |          | 7        | _        |                 | 124        |          | П  | П         |          |
|          | 25         | ٧         |          |              |          |          |              |  |                 |          |          |        | 75       |                 | T             |          |          |              |           |          |          |          |                 | 125        |          | П  | П         |          |
|          | 26         | 1         |          |              |          |          |              |  |                 |          |          |        | 76       |                 |               |          |          |              |           |          |          |          |                 | 126        |          |  |           |          |
|          | 27         | 1         |          |              |          |          |              |  |                 |          |          |        | 77       |                 |               |          |          |              |           |          |          |          |                 | 127        |          |  |           |          |
| <u> </u> | 28         | 1         |          |              |          | L.       |              |  | Щ               |          | L        |        | 78       |                 | _             |          |          |              |           |          | _        | _        |                 | 128        |          | Ш  | Ш         |          |
|          | 29         | _         |          |              | _        |          | Ĺ.,          |  | Ш               | _        | L        |        | 79       |                 | $\perp$       | _        | _        |              |           |          |          |          |                 | 129        |          | Ш  | Ш         |          |
|          | 30         | 1         |          |              | _        |          | ļ            | Щ  | $\square$       | _        | -        |        | 80       | _               | $\rightarrow$ | _        | _        |              | _         |          |          | 4        |                 | 130        |          | Ш  |           |          |
|          | 31         | 4         |          | -            | <u> </u> | ├—       | <u> </u>     |  |                 |          | F        |        | 81       | 4               | 4             | 4        |          | $\dashv$     | $\dashv$  |          | $\dashv$ | 4        | $\vdash$        | 131        | _        | <del>                                     </del> |           | _        |
|          | 32         | 1         |          |              | $\vdash$ | ┢        |              | Н  | $\dashv$        |          | ⊦        |        | 82<br>83 | $\vdash$        | $\dashv$      | +        | $\dashv$ | $\dashv$     | $\dashv$  |          | $\dashv$ | -        |                 | 132<br>133 | $\vdash$ | $\dashv$   | $\dashv$  |          |
|          | 34         | 7         |          |              | ⊢        | 1        | ├            | -  |                 | $\dashv$ | ┝        | -      | 84       | $\vdash$        | $\dashv$      | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$  | -        |          | $\dashv$ |                 | 134        | $\vdash$ | $\vdash$   | $\dashv$  | -        |
| $\vdash$ | 35         | 7         | _        | $\vdash$     | ├─       | -        | _            |  |                 | $\dashv$ | H        |        | 85       | $\dashv$        | $\dashv$      | $\dashv$ | $\dashv$ | -            | $\dashv$  |          | +        | ┥        | $\vdash$        | 135        | -        | $\dashv$   | $\dashv$  | _        |
|          | 36         | Ī         | _        | $\vdash$     | ┢        | 一        | $\vdash$     |  |                 | ┪        | <b> </b> |        | 86       | $\dashv$        | _             | ┪        | $\dashv$ | ᅥ            | -         |          | +        | ┪        | H               | 136        | -        | $\Box$   | $\dashv$  | _        |
|          | 37         | 1         |          |              | _        | ⇈        | Г            |  |                 | ╗        | T        |        | 87       | $\neg$          | _             | $\dashv$ | $\neg$   |              |           |          | _        | 1        | $\Box$          | 137        | <b>-</b> | $\Box$   | $\neg$    | _        |
|          | 38         | 1         |          |              |          |          |              |  |                 |          | Ī        |        | 88       |                 | T             | 寸        | ヿ        | $\neg$       |           |          | 寸        | 7        |                 | 138        |          | П  | $\exists$ | _        |
|          | 39         | 1         |          |              |          |          |              |  |                 |          | Ī        |        | 89       |                 | T             | $\neg$   |          |              |           |          | T        | 7        |                 | 139        |          | П  |           |          |
|          | 40         | $\sqrt{}$ |          |              |          |          |              |  |                 |          |          |        | 90       |                 |               |          |          |              |           |          |          |          |                 | 140        |          |  |           |          |
|          | 41         | V         |          |              |          | <u> </u> |              |  |                 |          | Ĺ        |        | 91       |                 |               |          | _        | $\Box$       |           |          |          |          |                 | 141        |          | $\square$  |           |          |
| <u> </u> | 42         | 1         |          |              | ļ        | <u> </u> | _            |  | $\sqcup$        |          | L        |        | 92       | $\dashv$        | _             | $\dashv$ |          |              |           | _        | $\perp$  | 4        |                 | 142        |          | Ш  |           | _        |
| <u> </u> | 43         | 1         |          |              | _        | <u> </u> | _            |  | $\dashv$        | _        | L        |        | 93       | $\perp$         | $\dashv$      | _        |          |              |           | $\dashv$ | _        | 4        | $\vdash \vdash$ | 143        | Щ        | $\sqcup$   | $\dashv$  | _        |
| -        | 44         | 1         |          |              | <u> </u> | H        |              | $\vdash \vdash$                                  |                 |          | -        |        | 94       |                 | $\dashv$      | $\dashv$ | _        | -            |           | $\dashv$ | +        | 4        | $\vdash \vdash$ | 144        | Н        | <u> </u>   | _         |          |
|          | 45<br>46   | 1         |          | $\vdash$     | $\vdash$ | $\vdash$ | -            | $\vdash$   |                 | -        | F        | -      | 95       | $\dashv$        | +             | $\dashv$ |          |              | $\dashv$  | $\dashv$ | -        | 4        | $\vdash$        | 145        | $\vdash$ | $\dashv$   | $\dashv$  |          |
| -        | 47         |           |          | <b>-</b> -   | -        | $\vdash$ | $\vdash$     | $\vdash$   | -               |          | -        |        | 96<br>97 | $\dashv$        | $\dashv$      | $\dashv$ |          | $\dashv$     | -         |          | +        | -        | $\vdash$        | 146<br>147 | $\vdash$ | $\dashv$   |           |          |
| $\vdash$ | 48         | $\vdash$  |          | -            | -        | $\vdash$ | -            | $\vdash$   | $\dashv$        | $\dashv$ | H        |        | 98       | $\dashv$        | +             | $\dashv$ | $\dashv$ | <del>-</del> | $\dashv$  |          | $\dashv$ | $\dashv$ | $\vdash$        | 148        | $\vdash$ | $\dashv$   | $\dashv$  |          |
|          | 49         | Н         |          | H            | $\vdash$ | $\vdash$ | $\vdash$     | Н  | $\dashv$        | $\dashv$ | F        |        | 99       | $\dashv$        | $\dashv$      | $\dashv$ |          | $\dashv$     | $\dashv$  | $\dashv$ | +        | $\dashv$ | -               | 149        | H        | -  | $\dashv$  |          |
|          | 50         |           |          |              |          | Т        | $\vdash$     | $\vdash$   | 1               | $\dashv$ | r        | $\neg$ | 100      | $\dashv$        | $\dashv$      | $\dashv$ |          | $\dashv$     | $\dashv$  | -        | $\dashv$ | $\dashv$ | $\vdash$        | 150        | Н        | $\dashv$   | $\dashv$  | _        |
|          |            |           |          | _            | Щ.       |          |              | لـــــا  | 1               |          | Ļ        |        | . 50     | L               |               |          |          |              |           |          |          |          | -               | ,,,,,      | ш        |  |           |          |

| Cli      | Date              |          |          |          |              |          |          |  |          |                 |  |
|----------|-------------------|----------|----------|----------|--------------|----------|----------|--|----------|-----------------|--|
|          |                   |          |          |          | T            |          |          |  |          |                 |  |
| Final    | Original          |          |          |          |              |          |          |  |          |                 |  |
|          | 101<br>102<br>103 |          |          |          |              |          |          |  |          |                 |  |
|          | 102               | _        |          | _        | <u> </u>     | <u> </u> | _        |  | _        | Ш               |  |
| <u> </u> | 103               | <u> </u> | _        | <u> </u> | _            | ┡        | <u> </u> | <u> </u>   | ļ        |                 |  |
|          | 104<br>105        | <u> </u> | _        | ┝        | H            | -        | ⊢        | <del> </del>                                     |          | $\vdash$        |  |
| $\vdash$ | 106               |          |          | ┢        | $\vdash$     | ├─       | ├        | ⊢  | ┢        | $\vdash$        |  |
|          | 107               | -        | -        | -        | <del> </del> |          | -        |  | $\vdash$ |                 |  |
|          | 107<br>108        |          |          |          |              | -        | -        | $\vdash$   | ┢        | П               |  |
|          | 109               |          |          |          |              |          |          |  |          |                 |  |
|          | 110               |          | Ĺ        |          |              |          |          | L_   |          |                 |  |
|          | 111               |          | _        | _        | _            | _        | _        |  | _        |                 |  |
|          | 112<br>113        |          | <u> </u> | ┝        | ┝            | -        | -        | H  | ┡        | Н               |  |
|          | 114               | _        | -        | $\vdash$ | -            | -        | $\vdash$ | ├-   | $\vdash$ | $\vdash \vdash$ |  |
|          | 114<br>115<br>116 |          | -        | $\vdash$ | $\vdash$     |          | $\vdash$ | -  | -        |                 |  |
|          | 116               |          |          |          |              | $\vdash$ | Г        |  |          | М               |  |
|          | 117               |          |          |          |              |          |          |  |          |                 |  |
|          | 118<br>119        |          |          |          |              |          |          |  |          |                 |  |
|          | 119               |          |          |          | L.           |          |          | _  |          | Ш               |  |
|          | 120<br>121<br>122 |          |          | _        | ļ            | _        |          | <u> </u>   | <u> </u> |                 |  |
|          | 121               |          | _        | -        | _            | -        |          |  |          | H               |  |
|          | 122               | _        |          | _        |              | $\vdash$ |          | H  | ⊢        | -               |  |
|          | 123<br>124<br>125 |          |          |          | $\vdash$     | H        |          | ┢  |          | $\vdash$        |  |
|          | 125               |          |          |          |              |          |          | <del>                                     </del> | $\vdash$ |                 |  |
|          | 126<br>127<br>128 |          |          |          |              |          |          |  |          |                 |  |
|          | 127               |          |          |          |              |          |          |  |          |                 |  |
|          | 128               |          |          |          |              | _        |          |  |          | Щ               |  |
|          | 129<br>130        |          |          | <u> </u> |              | <u> </u> |          | _  | ļ        | Щ               |  |
|          | 131               |          |          | $\vdash$ | $\vdash$     | -        | _        | -  | -        |                 |  |
|          | 132               |          |          | -        | $\vdash$     | $\vdash$ | _        | H  | _        | Н               |  |
|          | 133               |          | _        |          |              | $\vdash$ |          |  |          | Н               |  |
|          | 134               |          |          |          |              |          | _        |  |          |                 |  |
|          | 135               |          |          |          |              |          |          |  |          |                 |  |
|          | 136               | !        |          |          |              | <u> </u> |          | L  |          | Ш               |  |
|          | 137<br>138<br>139 |          |          |          |              |          |          | ļ.,  |          | Ш               |  |
|          | 138               |          |          |          |              |          |          | $\vdash$   |          | Н               |  |
|          | 140               |          |          | -        | $\vdash$     | $\vdash$ | -        | -  | -        | $\vdash$        |  |
|          | 141               | _        |          | Н        |              |          |          | Н  | Н        | $\vdash \vdash$ |  |
|          | 142               |          |          |          |              |          |          |  |          |                 |  |
|          | 143               |          |          |          |              |          |          |  |          |                 |  |
|          | 144               |          |          |          |              |          |          |  |          | Щ               |  |
|          | 145               |          |          | _        |              | _        |          |  | _        | $\sqcup$        |  |
|          | 146<br>147        | _        | _        | <u> </u> |              | _        |          | Н  | <u> </u> | $\vdash \vdash$ |  |
|          | 147               | _        |          | _        | -            | -        |          | -  | -        | $\vdash\vdash$  |  |
|          | 149               | -        | _        | $\vdash$ | Н            | _        |          | -  |          | H               |  |
|          | 150               | -        |          |          | Н            | $\vdash$ |          |  | $\vdash$ | $\vdash \vdash$ |  |
|          |                   |          |          | _        |              |          |          |  |          |                 |  |